

SET COMMAND COMPLETED

=> file ca

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE  
ENTRY  
0.15

TOTAL  
SESSION  
0.15

09/509,945  
CAS, Bio, US Pat

9/13/81

=> s (barnase?(3a)(mutant? or mutat?))/ab,bi

L1 86 (BARNASE?(3A)(MUTANT? OR MUTAT?))/AB,BI

=> s (agrobacterium or transgen? or microproject? or microinject? or electropora

L2 60639 (AGROBACTERIUM OR TRANSGEN? OR MICROPROJECT? OR MICROINJECT? OR  
ELECTROPORAT? OR BIOLISTIC?)/AB,BI

=> s (vector? or plasmid? or cdna?)/ab,bi

L3 301142 (VECTOR? OR PLASMID? OR CDNA?)/AB,BI

=> s l1 and l3

L4 4 L1 AND L3

=> file biosis

=> s l4

L5 5 L1 AND L3

=> dup rem

L6 7 DUP REM L4 L5 (2 DUPLICATES REMOVED)

=> d l6 1-7

L6 ANSWER 4 OF 7 CA COPYRIGHT 2001 ACS

AN 128:125303 CA

TI Creation of novel proteins with potential new functions by reassembling  
the protein-encoding units

IN Yanakawa, Koji

PA Mitsubishi Chemical Industries Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 10014578 | A2   | 19980120 | JP 1996-171354  | 19960701 |

L6 ANSWER 5 OF 7 CA COPYRIGHT 2001 ACS

DUPLICATE 1

AN 124:254409 CA

TI Protein-protein interaction: a genetic selection for compensating  
\*\*\*mutations\*\*\* at the \*\*\*barnase\*\*\* -barstar interface

AU Jucovic, Milan; Hartley, Robert W.

CS Lab. Cell. Dev. Biol., Natl. Inst. Health, Bethesda, MD, 20892, USA

SO Proc. Natl. Acad. Sci. U. S. A. (1996), 93(6), 2343-7

CODEN: PNASA6; ISSN: 0027-8424

DT Journal

and  
9/13

LA English

L6 ANSWER 6 OF 7 CA COPYRIGHT 2001 ACS  
AN 123:277149 CA  
TI In vivo system for the detection of low level activity \*\*\*barnase\*\*\*  
\*\*\*mutants\*\*\*  
AU Jucovic, Milan; Hartley, Robert W.  
CS Lab. Cellular Developmental Biology,, National Institutes of Health,  
Bethesda, MD, 20892, USA  
SO Protein Eng. (1995), 8(5), 497-9  
CODEN: PRENE9; ISSN: 0269-2139  
DT Journal  
LA English

and 8/13

L6 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2001 BIOSIS  
AN 1993:522428 BIOSIS  
DN PREV199396135835  
TI Step-wise \*\*\*mutation\*\*\* of \*\*\*barnase\*\*\* to binase: A procedure  
for engineering increased stability of proteins and an experimental  
analysis of the evolution of protein stability.  
AU Serrano, Luis (1); Day, Anthony G.; Fersht, Alan R.  
CS (1) EMBL Biostructures Biocomputing Programme, Meyerhofstr. 1, Heidelberg  
Germany  
SO Journal of Molecular Biology, (1993) Vol. 233, No. 2, pp. 305-312.  
ISSN: 0022-2836.  
DT Article  
LA English

=> d 16 4-6 ab

=> file ca

=> s 11 and 12

L7 0 L1 AND L2

=> file biosis

=> s 17

L8 0 L1 AND L2

=> file uspatfull

=> s 14

L9 2 L1 AND L3

=> d 19 1-2

=> d 19 1-2 ab

=> s 17

L10 2 L1 AND L2

=> s 110 not 19

L11 0 L10 NOT L9

=> file ca

```
=> s (male(2a)steril?)/ab,bi
L12      2876 (MALE(2A)STERIL?)/AB,BI
=> s l1 and l12
L13      1 L1 AND L12
=> s l13 not l4
L14      0 L13 NOT L4
=> file biosis
=> s l14
L15      0 L13 NOT L4
=> file uspatfull
=> s l14
L16      0 L13 NOT L4
```